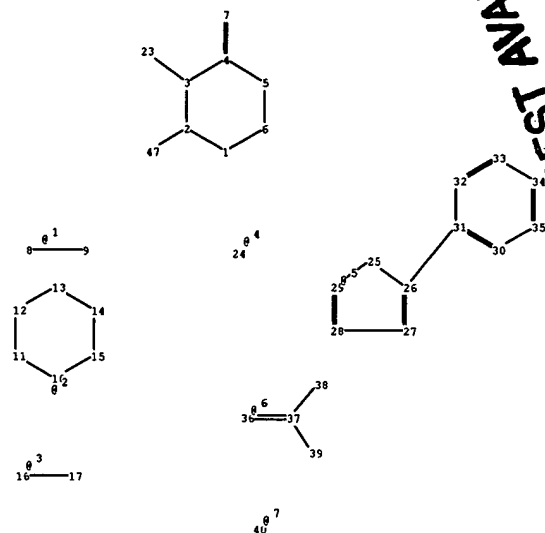
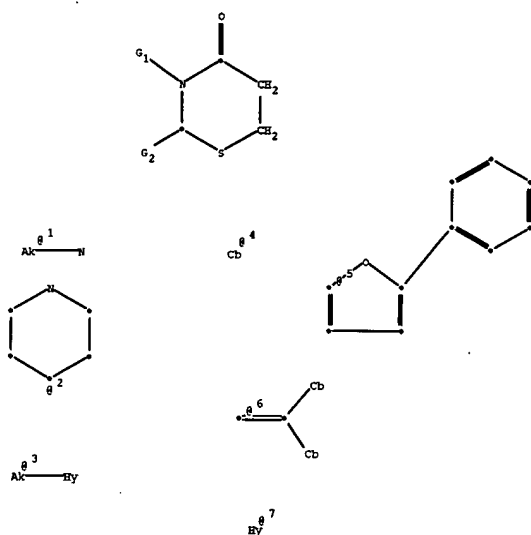


BEST AVAILABLE COPY



chain nodes :

7 8 16 17 23 24 36 37 38 39 40 47

ring nodes :

1 2 3 4 5 6 10 11 12 13 14 15 25 26 27 28 29 30 31 32 33 34 35

ring/chain nodes :

9

chain bonds :

2-47 3-23 4-7 8-9 16-17 26-31 36-37 37-38 37-39

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 25-26 25-29
26-27 27-28 28-29 30-31 30-35 31-32 32-33 33-34 34-35

exact/norm bonds :

1-2 1-6 2-3 2-47 3-4 3-23 4-5 4-7 5-6 8-9 10-11 10-15 11-12 12-13 13-14
14-15 16-17 25-26 25-29 26-27 27-28 28-29

exact bonds :

26-31 36-37 37-38 37-39

normalized bonds :

30-31 30-35 31-32 32-33 33-34 34-35

G1: [*1], [*2], [*3]

G2: [*4], [*5], [*6], [*7]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:Atom 23:CLASS 24:Atom
25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom
35:Atom 36:CLASS 37:CLASS 38:Atom 39:Atom 40:Atom 47:CLASS

Generic attributes :

17:

=> d his

(FILE 'HOME' ENTERED AT 12:07:18 ON 14 APR 2005)

FILE 'REGISTRY' ENTERED AT 12:07:30 ON 14 APR 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 8 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:08:11 ON 14 APR 2005

L4 15 S L3

=> d que 14 stat

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

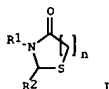
L3 8 SEA FILE=REGISTRY SSS FUL L1

L4 15 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-15 bib abs hitstr

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:76766 CAPLUS
 DN 138:131144
 TI Aryl-substituted thiazolidinones and therapeutic use thereof
 IN Sun, Qun; Kyle, Donald J.
 PA Euro-Celtique, S.A., Luxembourg
 SO PCT Int. Appl., 45 pp.
 CODEN: P1XXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003008398	A1	20030130	WO 2002-US22367	20020716
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, T, TH				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003109521	A1	20030612	US 2002-195530	20020716
EP 1417187	A1	20040512	EP 2002-763275	20020716
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004538285	T2	20041224	JP 2003-513957	20020716
US 2004176364	A1	20040909	US 2004-802765	20040318
PRAI US 2001-305099P	P	20010716		
US 2002-195530	A3	20020716		
WO 2002-US22367	W	20020716		
OS MARPAT 138:131144				
GI				

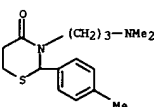


AB The invention discloses aryl-substituted thiazolidinones I [n = 1, 2; R1 = YN(R3)(R4) (Y = alkylene; R3, R4 = H, alkyl, aryl, or R3 and R4 together form alkylene chain having 4-5 C optionally interrupted by N or O), pyridylalkyl, optionally substituted piperidin-4-yl; R2 = optionally substituted phenoxyphenyl, optionally substituted phenylthiophenyl, optionally substituted benzylalkoxyphenyl, etc.], or a pharmaceutically acceptable salt or solvate thereof. The invention also discloses the use of I for the treatment of neuronal damage following global and focal ischemia, for the treatment or prevention of neurodegenerative conditions, e.g. amyotrophic lateral sclerosis, and for the treatment, prevention or

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:428220 CAPLUS
 DN 135:272658
 TI Intramolecular C-H...O interaction between lactam oxygen and N-alkyl protons
 AU Barone, V.; Bolognese, A.; Correale, G.; Diurno, M. V.; Gomez-Monterrey, J.; Mazzoni, O.
 SO Dipartimento di Chimica, Universita di Napoli "Federico II", Naples, Italy
 SO Journal of Molecular Graphics & Modelling (2001), 19(3/4), 318-324
 CODEN: JMGHFI; ISSN: 1093-3263
 DT Elsevier Science Inc.
 PB Journal
 LA English
 FAN.CNT 18

AB We report evidence of an unusual C-H...O interaction between an α -methylene hydrogen of the alkylamine chain of substituted (N,N-dimethylamino)propyl-thiazolidinones, substituted (N,N-dimethylamino)propyl-thiazolidinones and substituted (N,N-dimethylamino)propyl-thiazolinone and the lactam carbonyl oxygen. NMR anal. results, supported by mol. mechanics predictions, were in agreement with ab initio calcns. The observed interaction shortening the nitrogen-nitrogen distance in the H1-histamine antagonist, 2-(4-methylphenyl)-3-[(N,N-dimethylamino)propyl]-1,3-thiazolidin-4-one, could explain its fitting with the H1-antihistaminic pharmacophoric model and the high antihistaminic activity.

IT 363602-74-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (intramol. C-H...O interaction between lactam oxygen and N-alkyl protons)
 RN 363602-74-8 CAPLUS
 CN 4H-1,3-Thiazin-4-one, 3-[(3-(dimethylamino)propyl)tetrahydro-2-(4-methylphenyl)]- (9CI) (CA INDEX NAME)

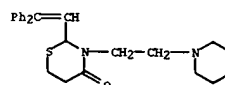


RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

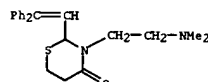
L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 amelioration of both acute and chronic pain, of depression, as local anesthetics, as antiarrhythmics and for the treatment or prevention of diabetic neuropathy. The compds. of the invention are sodium channel blockers.

IT 491864-53-0 491864-87-0
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (aryl-substituted thiazolidinones and therapeutic use)

RN 491864-53-0 CAPLUS
 CN 4H-1,3-Thiazin-4-one, 2-[(2,2-diphenylethyl)tetrahydro-3-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 491864-87-0 CAPLUS
 CN 4H-1,3-Thiazin-4-one, 3-[2-(dimethylamino)ethyl]-2-(2,2-diphenylethyl)tetrahydro- (9CI) (CA INDEX NAME)

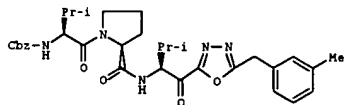
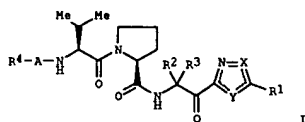


RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:819473 CAPLUS
 DN 134:5159
 TI Preparation of tripeptoid analogs as serine protease inhibitors
 IN Gyorkos, Albert C.; Spruce, Lyle W.
 PA Cortech, Inc., USA
 SO U.S., 107 pp., Cont-in-part of U. S. Ser. No. 761,190.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6150334	A	20001121	US 1997-985201	19971204
US 5618792	A	19970408	US 1994-345820	19941121
US 5807829	A	19980915	US 1996-761190	19961206
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TH				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
US 6037325	A	20000314	US 1998-69823	19980430
US 6001813	A	19991214	US 1998-30046	19980603
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531		
PRAI US 1994-345820	A2	19941121	MX 1999-5240	19990604
US 1996-761190	A2	19961206		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		
US 1996-761313	A	19961206		
US 1996-762381	A	19961206		
US 1996-771317	A	19961206		
US 1997-984881	A	19971204		
US 1997-984884	A	19971204		
US 1997-985056	A	19971204		
US 1997-985201	A	19971204		
US 1997-985298	A	19971204		
JP 1998-525656	A3	19971205		
WO 1997-US21636	W	19971205		
OS MARPAT 134:5159				
GI				

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Tripeptides I [X, Y = O, N, or S, provided that at least one of X or Y = N; R1 = (un)substituted (C5-12)aryl, (C5-12)arylalkyl, (C5-12)arylalkenyl, fused (C5-12)aryl-cycloalkyl, alkyl- or alkenyl-fused (C5-12)aryl-cycloalkyl optionally comprising one or more heteroatoms selected from N, S, or non-peroxide O; R2, R3 = H or alkyl; A = CO, NHCO, SO2, O2C, or CH2; R4 = H, alkyl, alkenyl, cycloalkyl, aryl, or arylalkyl (with proviso)] were prepared as serine protease inhibitors, including inhibitors of human neutrophil elastase. Thus, peptide I (Cbz = benzyloxycarbonyl) (CE-2072) was prepared and showed $K_i = 0.025$ nM for inhibition of elastase.

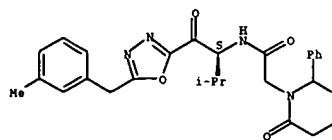
IT R1: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tripeptide analogs as serine protease inhibitors)

RN 208845-59-4 CAPLUS

CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:47017 CAPLUS

DN 132:78559

TI Preparation of heterocyclic compounds as serine protease inhibitors

IN Gyorkos, Albert; Spruce, Lyle W.

PA Cortech Inc., USA

SO U.S., 107 pp., Cont.-in-part of U.S. 5,891,852.

CODEN: USXXAM

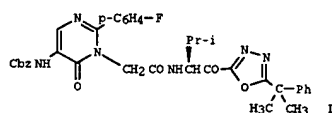
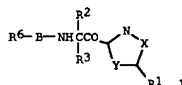
DT Patent

LA English

FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6015791	A	20000118	US 1997-984881	19971204
US 5618792	A	19970408	US 1994-345820	19941121
US 5891852	A	19990406	US 1996-762381	19961206
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RV: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, EF, BJ, CF, CG, CI, CM, GA, GH, ML, MR, NE, SH, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
PRAI US 1994-345820	A2	19941121		
US 1996-762381	A2	19961206		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		
US 1996-761313	A	19961206		
US 1996-771317	A	19961206		
US 1997-984881	A	19971204		
US 1997-984884	A	19971204		
US 1997-985056	A	19971204		
US 1997-985201	A	19971204		
US 1997-985298	A	19971204		
JP 1998-525656	A3	19971205		
WO 1997-US21636	W	19971205		
OS MARPAT 132:78559				
GI				

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



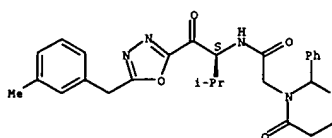
AB The present invention relates to a series of compds. of general structure I [X, Y = O, N, or S provided that at least one of X or Y = N; R1 = C5-12 aryl, C5-12 arylalkyl, or C5-12 arylalkenyl with at least one N, S, and O; R2, R3 = H or alkyl; B = S(O)2 or C(O); R6 = heterocycles (generic structures given)] that are useful as serine protease inhibitors, including inhibitors for human neutrophil elastase. In an in vitro test for inhibition of elastase, the title compound II shows the K_i value of 78.3. Compds. of the invention are useful in treating conditions such as adult respiratory distress syndrome, septic shock, and multiple organ failure.

IT 208845-59-4P
R1: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of heterocyclic compds. as serine protease inhibitors)

RN 208845-59-4 CAPLUS

CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1999:794318 CAPLUS
 DN 132:23197
 TI Preparation of N-substituted prolinyl peptide analogs as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 PA Cortech Inc., USA
 SO U.S., 107 pp., Cont.-in-part of U.S. 5,869,455.
 CODEN: USXGAM
 DT Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6001811	A	19991214	US 1997-984884	19971204
US 5618792	A	19970408	US 1994-345820	19941121
US 5869455	A	19990209	US 1996-761313	19961206
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, BG, BR, BY, CA, CH, CN, CU, CZ, DE, GH, KE, LS, MW, SD, SE, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, HL, HR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
PRAI US 1994-345820	A2	19941121		
US 1996-761313	A2	19961206		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		
US 1996-762381	A	19961206		
US 1996-771317	A	19961206		
US 1997-984881	A	19971204		
US 1997-984884	A	19971204		
US 1997-985056	A	19971204		
US 1997-985201	A	19971204		
US 1997-985298	A	19971204		
WO 1997-US21636	W	19971205		
OS MARPAT 132:23197				
GI				

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1999:779215 CAPLUS
 DN 132:36032
 TI Preparation of prolinyl peptide analogs as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 PA Cortech Inc., USA
 SO U.S., 110 pp., Cont.-in-part of U.S. 5,801,148.
 CODEN: USXGAM
 DT Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5998379	A	19991207	US 1997-985056	19971204
US 5618792	A	19970408	US 1994-345820	19941121
US 5801146	A	19980901	US 1996-771317	19961206
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, BG, BR, BY, CA, CH, CN, CU, CZ, DE, GH, KE, LS, MW, SD, SE, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, HL, HR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
US 6037325	A	20000314	US 1998-69823	19980430
US 6100238	A	20000808	US 1998-89587	19980603
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
PRAI US 1994-345820	A2	19941121		
US 1996-771317	A2	19961206		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		
US 1996-762381	A	19961206		
US 1996-771317	A	19961206		
US 1997-984881	A	19971204		
US 1997-984884	A	19971204		
US 1997-985056	A	19971204		
US 1997-985201	A	19971204		
US 1997-985298	A	19971204		
WO 1997-US21636	W	19971205		
OS MARPAT 132:36032				
GI				

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

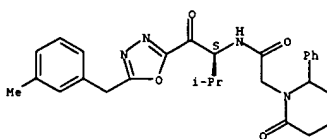


AB Proline analogs I [X, Y = O, S, N or substituted N; R1 = (un)substituted alkyl, alkenyl, or alkynyl, hydroxy, amino, alkylamino, dialkylamino, cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, cycloalkenyl, alkylcycloalkenyl, alkenylcycloalkenyl, aryl, arylalkyl, arylalkenyl, etc.; R2, R3 = H, (un)substituted alkyl or alkenyl, -RCOR', -RCO2R', -RNR'R'', or -RCONR'R'', where R is alkyl or alkenyl and R', R'', and R0 are H, alkyl, alkenyl, cycloalkyl, aryl, cycloalkyl, etc.; R10 = aryl, arylalkyl, arylalkenyl, cycloalkyl, alkylcycloalkyl, etc.; D is a direct bond or an amino acid selected from proline, isoleucine, cyclohexylalanine, or cysteine optionally substituted at sulfur, A is a direct bond, CO, NHCO, SO2, OCO, CH2; R14 = H, alkyl, alkenyl, aryl, arylalkyl, cycloalkyl, alkylcycloalkyl, etc.] were prepared as serine protease inhibitors. Thus, (benzylloxycarbonyl)-L-valyl-N-[(1S)-[5-[(3-methylbenzyl)-1,3,5-oxadiazolyl]carbonyl]-2-methylpropyl]-L-prolinamide was prepared and showed Ki = 0.025 nM for inhibition of human neutrophil elastase.

IT 208845-59-4P, CE 2118
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of prolinyl peptide analogs as serine protease inhibitors)

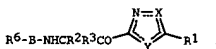
RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

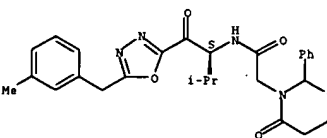


AB Proline analogs I [X, Y = O, S, N or substituted N; R1 = (un)substituted alkyl, alkenyl, or alkynyl, hydroxy, amino, alkylamino, dialkylamino, cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, cycloalkenyl, alkylcycloalkenyl, alkenylcycloalkenyl, aryl, arylalkyl, arylalkenyl, etc.; R2, R3 = H, (un)substituted alkyl or alkenyl, -RCOR', -RCO2R', -RNR'R'', or -RCONR'R'', where R is alkyl or alkenyl and R', R'', and R0 are H, alkyl, alkenyl, cycloalkyl, aryl, cycloalkyl, etc.; R6 = SO2, CO, OCO, CH2CO; R6 = aryl, arylalkyl, cycloalkyl, alkylcycloalkyl, or R14-A-D-NR10CH2CONHCR2R3CO, where R14 is a substituent, A is a direct bond or an amino acid selected from proline, isoleucine, cyclohexylalanine, or cysteine optionally substituted at sulfur, A is a direct bond, CO, NHCO, SO2, OCO, CH2; R14 = H, alkyl, alkenyl, aryl, arylalkyl, cycloalkyl, alkylcycloalkyl, etc.] were prepared as serine protease inhibitors. Thus, (benzylloxycarbonyl)-L-valyl-N-[(1S)-[5-[(3-methylbenzyl)-1,3,5-oxadiazolyl]carbonyl]-2-methylpropyl]-L-prolinamide was prepared and showed Ki = 0.025 nM for inhibition of human neutrophil elastase.

IT 208845-59-4P, CE 2118
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of prolinyl peptide analogs as serine protease inhibitors)

RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



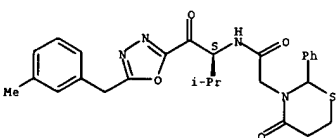
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1999:231191 CAPLUS
 DN 130:252684
 TI Preparation of fused cycloheptane azole heterocyclic peptoids as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 PA Cortech, Inc., USA
 SO U.S., 61 pp., Cont.-in-part of U.S. 5,618,792.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5891852	A	19990406	US 1996-762381	19961206
US 5618792	A	19970408	US 1994-345820	19941121
CA 2205198	AA	19960530	CA 1995-2205198	19951117
CA 2205198	C	20020604		
CN 1170414	A	19980114	CN 1995-196952	19951117
ES 2145936	T3	20000716	ES 1995-940031	19951117
PT 793674	T	20001130	PT 1995-940031	19951117
ZA 5908919	A	19960530	ZA 1995-9819	19951120
TW 474924	B	20020201	TW 1995-84112388	19951120
IL 116078	A1	19991231	IL 1995-116078	19951121
US 5874585	A	19990223	US 1996-698575	19960815
US 6015791	A	20000118	US 1997-984881	19971204
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, BG, BR, BU, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
BR 9713684	A	20000328	BR 1997-13684	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
TW 593340	B	20040621	TW 1997-86118340	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
PRAI US 1994-345820	A2	19941121		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of fused cycloheptane azole heterocyclic peptoids as serine protease inhibitors)
 RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[(5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl)carbonyl]propyl]-4-oxo-2-phenyl-(5C1) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 US 1996-761190 A 19961206
 US 1996-761313 A 19961206
 US 1996-762381 A2 19961206
 US 1996-771317 A 19961206
 US 1997-984881 A 19971204
 US 1997-984884 A 19971204
 US 1997-985056 A 19971204
 US 1997-985201 A 19971204
 US 1997-985298 A 19971204
 JP 1998-525656 A3 19971205
 WO 1997-US21636 W 19971205

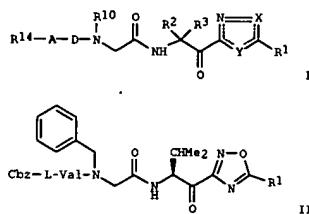
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to certain substituted oxadiazole, thiazazole and triazole peptoids [X, Y = O, N, S; at least one of X or Y = N; R1 = alkyl, alkenyl (un)substituted with halo or OH; alkynyl, alkyl-CO2Me, dialkylamino, alkylalkylamino, cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, C5-12 aryl, C5-12 arylalkyl, C5-12 arylalkenyl optionally containing 21 N, S, O atoms, and optionally substituted; R2, R3, R21, R31 = independently H, alkyl, alkylthio, alkylthioalkyl, cycloalkyl, alkylcycloalkyl, Ph, phenylalkyl optionally substituted with guanidine, carbalkoxy, OH, haloalkyl, alkylthio, alkylguanidine, dialkylguanidine, amidine; B = SO2, CO; R6 = fused cycloheptane ring system Q1-Q3; R13, R15 = independently H, alkyl, halo, alkoxy, carbalkoxy, cycloalkoxy, carbonyl, alkylthio, amino, alkylamino or dialkylamino; aryl, fused aryl, cycloalkyl optionally containing 21 O, N, S atoms, and optionally substituted with halo or alkyl; R14 = H, aminoalkyl, alkenyl (un)substituted cycloalkyl, aryl, arylalkyl, fused aryl-cycloalkyl optionally containing 21 N, O, S atoms] and pharmaceutically acceptable salts thereof, which are useful as inhibitors of human neutrophil elastase (HNE) for the treatment of HNE-mediated processes implicated in conditions such as adult respiratory distress syndrome, septic shock and multiple organ failure. A series of studies also have indicated the involvement of HNE in myocardial ischemia-reperfusion injury, emphysema. R14 = H, aminoalkyl, alkenyl, cycloalkyl, aryl, arylalkyl, fused aryl-cycloalkyl optionally containing 21 N, O, S atoms, and optionally substituted with alkyl, halo, alkoxy, amino, alkylamino, dialkylamino, carbonyl, alkyl, alkenyl, haloalkoxy, carbalkoxy, alkylcarbamoyl, aryl, arylcarbamoyl, alkylthio, haloalkylthio. HNE-mediated processes are implicated in other conditions such as arthritis, periodontal disease, glomerulonephritis, dermatitis, psoriasis, cystic fibrosis, chronic bronchitis, atherosclerosis, Alzheimer's disease, organ transplantation, corneal ulcers, and invasion behavior of malignant tumors. Thus, coupling of hexahydroazepinoindolecarboxylic acid II (Fmoc = 9-fluorenylmethoxycarbonyl) with amino alc. III (preparation given), followed by Swern oxidation and deprotection gave desired title compound IV. IV inhibited human neutrophil elastase with Ki = 10.0 nM.
 IT 208845-59-4P

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1999:104503 CAPLUS
 DN 130:125411
 TI Preparation of N-substituted derivatives of azole heterocyclic peptoids as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 PA Cortech, Inc., USA
 SO U.S., 63 pp., Cont.-in-part of U.S. Ser. No. 345,820.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5869455	A	19990209	US 1996-761313	19961206
US 5618792	A	19970408	US 1994-345820	19941121
CA 2205198	AA	19960530	CA 1995-2205198	19951117
CA 2205198	C	20020604		
CN 1170414	A	19980114	CN 1995-196952	19951117
ES 2145936	T3	20000716	ES 1995-940031	19951117
PT 793674	T	20001130	PT 1995-940031	19951117
ZA 5908919	A	19960530	ZA 1995-9819	19951120
TW 474924	B	20020201	TW 1995-84112388	19951120
IL 116078	A1	19991231	IL 1995-116078	19951121
US 5874585	A	19990223	US 1996-698575	19960815
US 6001811	A	19991214	US 1997-984884	19971204
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, BG, BR, BU, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
BR 9713684	A	20000328	BR 1997-13684	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
TW 593340	B	20040621	TW 1997-86118340	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
PRAI US 1994-345820	A2	19941121		
US 1996-698575	A1	19960815		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		
US 1996-761313	A2	19961206		
US 1996-762381	A	19961206		
US 1996-771317	A	19961206		

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 US 1997-984881 A 19971204
 US 1997-984884 A 19971204
 US 1997-985056 A 19971204
 US 1997-985201 A 19971204
 US 1997-985298 A 19971204
 JP 1998-525656 A3 19971205
 WO 1997-US21636 W 19971205
 OS MARPAT 130:125411
 GI



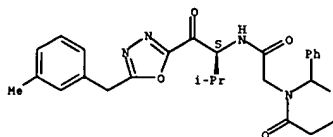
AB The present invention relates to certain substituted oxadiazole, thiadiazole and triazole peptoids I [X, Y = O, N, S; at least one of X or Y = N; R1 = alkyl or alkenyl optionally substituted with halo or hydroxy; alkynyl, alkyl-CO2Me, dialkylamino, alkylalkylamino; or cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, C5-12 aryl, C5-12 arylalkyl, C5-12 arylalkenyl optionally containing 1 or more heteroatoms N, S, O, and optionally substituted; R2, R3 = independently H, alkyl, alkylthio, alkylthioalkyl, cycloalkyl, alkylcycloalkyl, Ph, phenylalkyl optionally substituted with guanidine, carbalkoxy, OH, haloalkyl, alkylthio, alkylguanidine, dialkylguanidine or amidine; R10 = C5-6 aryl, C5-6 arylalkyl, C5-6 arylalkenyl, cycloalkyl, arylcycloalkyl optionally containing 1 or more heteroatoms N, S, O, and optionally substituted; D = bond, CO, amino acid residue; A = bond, CO, NHCO, SO2, O2C, CH2; R14 = H, alkyl, alkenyl, cycloalkyl, aryl, arylalkyl, fused aryl-cycloalkyl optionally containing 1 or more heteroatoms N, O, S, and optionally substituted], and pharmaceutically acceptable salts thereof, which are useful as inhibitors of human neutrophil elastase (HNE) for the treatment of HNE-mediated processes implicated in conditions such as adult respiratory distress syndrome, septic shock and multiple organ failure. A series of studies also have indicated the involvement HNE in myocardial ischemia-reperfusion injury, emphysema. HNE-mediated processes are implicated in other conditions such as arthritis, periodontal disease, glomerulonephritis, dermatitis, psoriasis, cystic fibrosis, chronic bronchitis, atherosclerosis, Alzheimer's disease, organ transplantation, corneal

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 AN 1999:56366 CAPLUS
 DN 130:125406
 TI Preparation of azole heterocyclic peptoids containing keto or diketo ring systems as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 FA CorTech, Inc., USA
 SO U.S., et al., Cont.-in-part of U.S. 5,618,792.
 DT CODEN: USKXAM
 DO Patent
 LA English
 FAN.CNT 18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5861380	A	19990119	US 1996-760916	19961206
US 5618792	A	19970408	US 1994-345820	19941121
CA 2205198	AA	19960530	CA 1995-2205198	19951117
CA 2205198	C	20020604		
CN 1170414	A	19980114	CN 1995-196952	19951117
ES 2145936	T3	20000716	ES 1995-940031	19951117
PT 793674	T	20001130	PT 1995-940031	19951117
ZA 9509819	A	19960530	ZA 1995-9819	19951120
TW 474924	B	20020201	TW 1995-84112388	19951120
IL 116078	A1	19981231	IL 1995-116078	19951121
US 5874585	A	19990223	US 1996-698575	19960815
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NA, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9855894	A	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
BR 9713684	A	20000328	BR 1997-13684	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
TW 593340	B	20040621	TW 1997-8618340	19971205
US 6037325	A	20000314	US 1998-69823	19980430
US 6001814	A	19991214	US 1998-90274	19980603
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
US 2002119985	A1	20020829	US 2001-927832	20010810
US 2002119998	A1	20020829	US 2001-991286	20011116
US 6608175	B2	20030819		
US 2003030851	A1	20031030	US 2002-125222	20020418
US 6656911	B2	20031202		
PRAI US 1994-345820	A2	19941121		
US 1996-698575	A1	19960815		

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 ulcers, and invasion behavior of malignant tumors. Thus, oxadiazolyl tripeptide II (R1 = CH2CH2CF3-3; Chz = PhCH2O2C) inhibited human neutrophil elastase with Ki = 0.98 nM.
 IT 208845-59-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of azole heterocyclic peptoids as serine protease inhibitors)
 RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[[3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl-9CI] (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

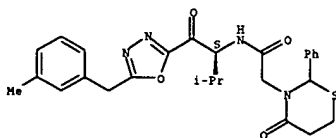
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 US 1996-760916 A 19961206
 US 1996-761190 A 19961206
 US 1996-761313 A 19961206
 US 1996-762381 A 19961206
 US 1996-771317 A 19961206
 US 1997-984881 A 19971204
 US 1997-984884 A 19971204
 US 1997-985056 A 19971204
 US 1997-985201 A 19971204
 US 1997-985298 A 19971204
 JP 1998-525656 A3 19971205
 WO 1997-US21636 W 19971205
 OS MARPAT 130:125406
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to certain substituted oxadiazole, thiadiazole and triazole peptoids I [X, Y = O, N, S; at least one of X or Y = N; R1 = alkyl or alkenyl optionally substituted with halo or hydroxy; alkynyl, alkyl-CO2Me, dialkylamino, alkylalkylamino; or cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, C5-12 aryl, C5-12 arylalkyl, C5-12 arylalkenyl optionally containing 1 or more heteroatoms N, S, O, and optionally substituted; R2, R3 = R'2, R'3 = independently H, alkyl, alkylthio, alkylthioalkyl, cycloalkyl, alkylcycloalkyl, Ph, phenylalkyl optionally substituted with guanidine, carbalkoxy, OH, haloalkyl, alkylthio, alkylguanidine, dialkylguanidine or amidine; R11, R12 and E together form a monocyclic or bicyclic ring comprising 5-10 atoms selected from C, N, S, and O; said ring containing 1 or more keto groups; and optionally substituted with halo, cyano, nitro, haloalkyl, amino, aminoalkyl, dialkylamino, alkyl, alkenyl, alkynyl, alkoxy, carbonyl, etc; or cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, C5-12 aryl, C5-12 arylalkyl, (C5-12 arylalkyl)OCOR, C5-12 arylalkyl optionally containing 1 or more heteroatoms N, S, O, and optionally substituted], and pharmaceutically acceptable salts thereof, which are useful as inhibitors of human neutrophil elastase (HNE) for the treatment of HNE-mediated processes implicated in conditions such as adult respiratory distress syndrome, septic shock and multiple organ failure. A series of studies also have indicated the involvement HNE in myocardial ischemia-reperfusion injury, emphysema. HNE-mediated processes are implicated in other conditions such as arthritis, periodontal disease, glomerulonephritis, dermatitis, psoriasis, cystic fibrosis, chronic bronchitis, atherosclerosis, Alzheimer's disease, organ transplantation, corneal ulcers, and invasion behavior of malignant tumors. Thus, coupling of valine-derived oxadiazole II (R1 = CH2CH2OMe-3) (preparation given) with III (Chz = PhCH2O2C), followed by oxidation of the secondary alc. to the corresponding ketone gave oxadiazole peptide derivative IV. IV inhibited human neutrophil elastase with Ki = 0.21 nM.
 IT 208845-59-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of azole heterocyclic peptoids as serine protease inhibitors)
 RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[[3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl-

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

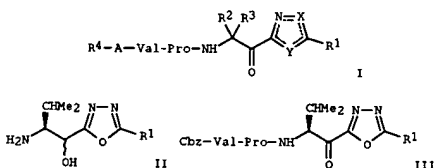
L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
AN 1998:604649 CAPLUS
DN 129:231017
TI Preparation of azole heterocyclic peptoids as serine protease inhibitors
IN Gyorkos, Albert; Spruce, Lyle W.
PA Cortech, Inc., USA
SO U.S., 62 pp., Cont.-in-part of U.S. 5,618,792.
CODEN: USXXAM
DT Patent
LA English
EAN 001,18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5807829	A	19890815	US 1996-761190	19961206
US 5618792	A	19970408	US 1994-345820	19941121
CA 2205198	AA	19960530	CA 1995-2205198	19951117
CA 2205198	C	20020604		
CN 1170414	A	19980114	CN 1995-196952	19951117
ES 2145936	T3	20000716	ES 1995-940031	19951117
PT 793674	B	20001101	PT 1995-940031	19951111
ZA 9509819	A	19960530	ZA 1995-9819	19951120
TW 474524	B	20020201	TW 1995-84112388	19951120
IL 116078	A1	19991231	IL 1995-116078	19951121
US 5847585	A	19990223	US 1996-698575	19960815
US 6159938	A	20001212	US 1997-859242	19970520
US 6150334	A	20001121	US 1997-895401	19971204
CA 792548	AA	19980611	CA 1997-272548	19971205
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KP, KR,				
KZ, LT, LK, LR, LS, LI, LV, MD, MG, MK, MN, HM, MX, NO, NZ,				
PL, PC, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, UA, UG,				
UZ, VN, YU, MY, AE, MC, AL, BZ, KG, KZ, HD, TJ, TH				
RW: GH, KE, LS, MW, SZ, ZW, AT, BE, DE, DK, ES, FI, FR,				
GB, GR, IE, IT, LU, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA,				
GN, ML, MR, NE, NG, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	B2	19991110	EP 1997-952232	19971205
R: at, BE, CB, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LW, FI				
CN 1247542	A	20000315	CN 1997-180392	19971205
RU 9901681	T2	20000321	RU 1999-9901681	19971205
BR 9713684	A	20000328	BR 1997-13684	19971205
JP 2001507679	B2	20010612	JP 1998-525656	19971205
JP 32201667	B2	20011022		
IP 2001192398	F2	20010717	JP 2000-197432	19971205
RU 200103270	D2	20030321	RU 2001-200103270	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
TW 593340	B	20040621	TW 1997-86118340	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 6001813	A	19990124	US 1998-90046	19971205
NO 9902734	A	19990808	NO 1999-2734	19990604
MKG 9905240	A2	20000531	MKG 1999-5240	19990604
US 1994-345820	A1	19941121		
US 1996-698575	A2	19980815		

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

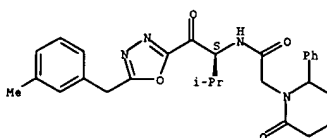
US	1996-760916	A	19971206
US	1996-761190	A2	19971206
US	1996-761313	A	19971206
US	1996-762381	A	19971206
US	1996-771317	A	19971206
US	1997-984881	A	19971204
US	1997-984884	A	19971204
US	1997-985056	A	19971204
US	1997-985201	A	19971204
US	1997-985298	A	19971204
JP	1998-525656	A3	19971205
WO	1997-US21636	W	19971205
OS	MARPAT	1929:231017	

OS MARPAT 129:231017
GI



L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 [prep. of azole heterocyclic peptides as serine protease inhibitors]
 RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3-(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[(5-[(3-
 methylphenyl)methyl]-1,3,4-oxadiazol-2-yl)carbonyl]propyl]-4-oxo-2-phenyl-
 (9CI). (CA, INDEX NAME)

Absolute stereochemistry.



RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The present invention relates to certain substituted oxadiazole, thiazidazole and triazole peptoids I (X, Y = O, N, S) at least one of X or Y = N; R1 = alkyl or alkenyl optionally substituted with halo or hydroxy; alkynyl, alkyl-CO2Me, dialkylamino, alkyl-dialkylamino; or cycloalkyl, alkylcycloalkyl, alkencylcycloalkyl, C5-12 aryl, C5-12 arylalkyl, C5-12 arylalkenyl optionally containing 1 or more heteroatoms N, S, O, and optionally substituted; R2, R3 = independently H, alkyl, alkyldithio, alkylthioalkyl, cycloalkyl, alkylcycloalkyl, Ph, phenylalkyl optionally substituted with amide, carboxyalkyl, OH, haloalkyl, alkyldithio, alkylidene, dialkylamino or aminoalkyl or aminoalkyl-NHCO, SO2, O2C, CH2, amino acid residues; R4 = H, alkyl, alkenyl, cycloalkyl, aryl, arylalkyl, fused aryl-cycloalkyl optionally containing 1 or more heteroatoms N, O, S, and optionally substituted), and pharmaceutically acceptable salts thereof, which are useful as inhibitors of human neutrophil elastase (HNE) for the treatment of HNE-mediated processes implicated in conditions such as adult respiratory distress syndrome, septic shock and multiple organ failure. A series of studies also have indicated the involvement of HNE in myocardial infarction and stroke, emphysema. HNE-mediated processes are implicated in other conditions such as arthritis, periodontal disease, glomerulonephritis, dermatitis, psoriasis, cystic fibrosis, chronic bronchitis, atherosclerosis, Alzheimer's disease, organ transplantation, corneal ulcers, and invasion behavior of malignant tumors. Thus, coupling of valine-derived oxadiazole II (R1 = CH2CH2NHMe-3) (preparation given) with Chz-Val-Pro-GH (Chz = PhCH2O2C), followed by oxidation of the secondary alcohol to the corresponding ketone gave oxadiazole peptide derivative III. III inhibited human neutrophil elastase with Ki = 0.025 nM.

IT 208045-59-4P

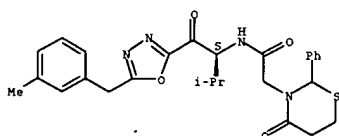
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L4 ANSWER 11 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:585365 CAPLUS
DI 129:216917
T1 preparation of proline analog peptides as serine protease inhibitors
IN Gyorkos, Albert; Spruce, Lyle W.
PA Cortech, Inc., USA
SO U.S., 62 pp., Cont.-in-part of U. S. 5,618,792.
CODEN: USXXAM
DT Patent
LA English
EAN-CRT,18

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5801148	A	19980901	US 1996-771317	19961206
US 1681792	A	19970408	US 1994-345820	19941121
CA 2205198	AA	19960530	CA 1995-2205198	19951117
CA 2205198	C	20020604		
CA 1790414	A	19980114	CN 1995-196952	19951117
ES 2145932	T3	200000716	ES 1995-940031	19951117
PT 793674	T	20001131	PT 1995-940031	19951117
ZA 9509819	A	19960530	ZA 1995-9819	19951120
TW 474524	B	20020201	TW 1995-84112388	19951120
IL 116078	A1	19991231	IL 1995-116078	19951121
US 5874585	A	19990223	US 1996-698575	19960815
US 5998379	A	19991207	US 1997-985056	19971204
CA 2272548	AA	19980611	CA 1997-2272548	19971205
WO 9824806	A1	19980611	WO 1997-9521636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RU, RO, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, VN, YR, YU, ZW, AM, AZ, BY, EG, KG, KD, MD, RU, TJ, TM				
RW: CH, CE, LS, SD, SE, SZ, TW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, PT, SE, BF, BF, CF, CG, CI, CM, FA, GN, ML, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
CN 1247542	T	20000315	CN 1997-180392	19971205
TR 9901681	T2	20000321	TR 1999-9901681	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011022		
JP 2001192398	A2	20010717	JP 2000-197432	19971205
TR 200103270	T2	20030321	TR 2001-200103270	19971205
US 2217436	B2	20031127	US 1998-114606	19971205
US 593340	A2	20040621	US 1997-1818340	19971205
TW 6307325	A	20000314	US 1998-69823	19980420
US 6100238	A	20000808	US 1998-89587	19980603
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
US 1994-345820	A2	19941121		
US 1996-698575	A1	19960615		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		
PRAF US 1994-345820	A2	19941121		
US 1996-698575	A1	19960615		
US 1996-760916	A	19961206		
US 1996-761190	A	19961206		

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl-
(9CI) (CA INDEX NAME)

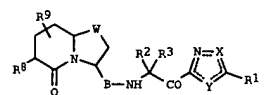
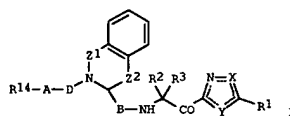
Absolute stereochemistry.



RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4	ANSWER 11 OF 15	CAPLUS	COPYRIGHT	2005 ACS	ON	STN	(Continued)
US	1996-761313	A	19961206				
US	1996-762381	A	19961206				
US	1996-771317	A2	19961206				
US	1997-984881	A	19971204				
US	1997-984884	A	19971204				
US	1997-985056	A	19971204				
US	1997-985201	A	19971204				
US	1997-985298	A	19971204				
JP	1998-525656	A3	19971205				
W0	1997-US21636	W	19971205				

GI



AB Proline analogs, peptides I and II [X, Y = O, N, S; R1 = alkyl, alkenyl, alkynyl, dialkylamino, etc.; R2, R3 = H, alkyl, alkyldienyl, alkyldialkyl, etc.; B = SO₂, CO, Z1, Z2 = direct bond or CH₂; D = direct bond or certain amino acid residues; A = CO, NHCO, SO₂, OCO, OZCHN, CH₂; R4 = H, alkyl, alkenyl, cycloalkyl, aryl, arylalkyl, etc.; W = S, O, R8 = alkylamino, dialkylamino, alkyl, alkenyl, aryl, haloalkyl, etc.] were prepared by pharmaceutically acceptable salts were prepared by serine protease inhibitors. Thus, (benzyloxycarbonyl)-1-L-valyl-N-[1-(2-[5-(3-methylbenzyl)-1,3,4-oxadiazolyl]carboxyl)-2-(5-methylpropyl)-1-L-prolinamide, prepared from 3-(5-(benzyloxycarbonyl)amino)-2-acetoxy-4-methylpentanenitrile, 3-methylphenylisothiocyanate, hydrazide, and Cbz-Val-Pro-OH, showed inhibition activity IC₅₀ = 0.025 nM.

IT 208445-59-4P
 R1: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOI (Biological study); PREP (Preparation); USES (Uses)
 (preparation of proline analog peptides as serine protease inhibitors)

RN 208445-59-4.CAPUIS

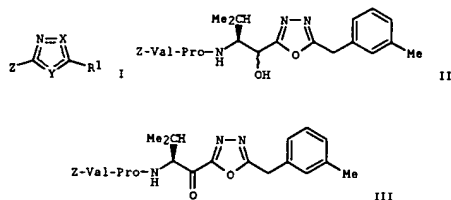
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1998:394350 CAPLUS
 DN 129:68032
 TI Preparation of oxadiazole peptide analogs as serine protease inhibitors
 IN Gyorkos, Albert; Spruce, Lyle W.
 PA Cortech, Inc., USA; Gyorkos, Albert; Spruce, Lyle W.
 SO FCT Int. Appl., 187 pp.
 CODEN: PIXXD2

DT Patent
LA English

PATENT NO.		KIND	DATE	APPLICATION NO.		DATE	
PI	WO 92484906	A2	19980611	WO 1997-US21636			19971205
	WO 92484906	A3	19980105				
	W:	AK, AM, AT, AU, AZ, BA, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
	US 5801148	A	19980301	US 1996-771317			19961206
	US 5807829	A	19980915	US 1996-761190			19961206
	US 5861380	A	19990119	US 1996-760916			19961206
	US 5869455	A	19990209	US 1996-761313			19961206
	US 5891852	A	19990406	US 1996-762381			19961206
	US 5998379	A	19991207	US 1997-985056			19971204
FRAI	US 6001811	A	19991214	US 1997-984884			19971204
	US 6105791	A	20000118	US 1997-984881			19971204
	US 6150334	A	200001121	US 1997-985201			19971204
	CA 2272548	AA	19990611	CA 1997-2272548			19971205
	AU 9855894	A1	19980629	AU 1996-55894			19971205
	AU 734615	B2	20010621				
	EP 954526	DE	19991110	EP 1995-952232			19971205
	R: AT, BE, CH, IE, SI, LT, LV, FI, RO	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,					
	BR 9713684	A	20000328	BR 1997-13684			19971205
	JP 2000507679	T2	20010612	JP 1998-525656			19971205
OS GI	JP 3220169	B2	20011022				
	RU 2217436	C2	20031127	RU 1999-514606			19971205
	NO 9902734	A	19990802	NO 1999-2734			19990604
	MX 9905240	A	20000531	MX 1999-2540			19990604
	US 2003060418	A1	20030327	US 2001-928117			20010810
	US 6656910	B2	20031202				
	US 1996-760916	A	19961206				
	US 1996-761190	A	19961206				
	US 1996-761313	A	19961206				
	US 1996-762381	A	19961206				
OS GI	US 1996-771317	A	19961206				
	US 1997-984881	A	19971204				
	US 1997-984884	A	19971204				
	US 1997-985056	A	19971204				
	US 1997-985201	A	19971204				
	US 1997-985298	A	19971204				
	US 1994-345820	A2	19941121				
	WO 1997-US21636	W	19971205				
	MARPAT 129-68032						

OS

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



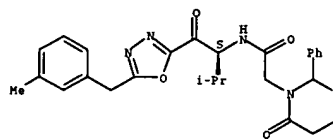
AB The present invention relates to certain substituted oxadiazole, thiazazole and triazole peptide analogs I (X, Y = independently O, S, (un)substituted N; Z = serine protease binding moiety, preferably a human neutrophil elastase binding moiety; R1 = (un)substituted alkyl, alkenyl, alkynyl, OH, amino, alkylamino, dialkylamino, cycloalkyl, alkylcycloalkyl, alkenylcycloalkyl, cycloalkenyl, alkylcycloalkenyl, alkenylcycloalkenyl, C5-12 aryl, C5-12 arylalkyl, C5-12 arylalkenyl, fused C5-12 arylcycloalkyl, alkyl fused C5-12 arylcycloalkyl) which are useful as inhibitors of serine proteases. Thus, Swern oxidation of reduced pseudopeptide II (Z = PhCH2O2C), prepared in 8 steps from 3S-(benzyloxycarbonylamino)-2-acetoxy-4-methylpentanenitrile, 3-methylphenylacetic hydrazide, and Z-Val-Pro-OH, gave 74% desired oxadiazole III. III inhibited human neutrophil elastase with IC50 = 0.025 nM in an in vitro assay.

IT 208845-59-4p
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of oxadiazole peptide analogs as serine protease and human neutrophil elastase inhibitors)

RN 208845-59-4 CAPLUS
 CN 2H-1,3-Thiazine-3(4H)-acetamide, dihydro-N-[(1S)-2-methyl-1-[[5-[(3-methylphenyl)methyl]-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-4-oxo-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:409716 CAPLUS

DN 71:9716

TI Effect of structural variations on antioxidant capability. IV. Heterocycles with two heteroatoms

AU Fenech, Giovanna; Tommasini, Alessandro; Valenti, Giacomo

CS Ist. Chim. Farm. Tossicol., Univ. Messina, Messina, Italy

SO Atti della Società Peloritana di Scienze Fisiche, Matematiche e Naturali (1967), 13(3-4), 157-71

CODEN: ASPSAJ; ISSN: 0037-8860

DT Journal

LA Italian

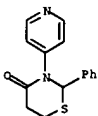
AB The antioxidant effect of title compds. toward vitamin C, at 60°, was in the following decreasing order: 2-phenyl-3-(R-substituted)-5-(R1-substituted)thiazolidin-4-one (I) (R = piperidin-3-yl, R1 = H), I (R = 2-methylpiperidin-6-yl, R1 = H), I (R = 3-methylpiperidin-6-yl, R1 = H), I (R = 4-methylpiperidin-2-yl, R1 = H), I (R = 3-methylpiperidin-2-yl, R1 = H), 2-phenyl-3-(R-substituted)-6-(R1-substituted)tetrahydro-1,3-thiazin-4-one (II) (R = piperidin-3-yl, R1 = H), I (R = piperidin-2-yl, R1 = H), I (R = piperidin-2-yl, R1 = Me), II (R = 2-methylpiperidin-6-yl, R1 = H), II (R = 3-methylpiperidin-6-yl, R1 = H), II (4-methylpiperidin-2-yl, R1 = H), II (R = piperidin-4-ylcarbamoyl, R1 = CO2H), II (R = piperidin-2-yl, R1 = H), II (R = piperidin-4-yl, R1 = H), I (R = NHCOC5H4N, R1 = CH2CO2H), I (R = NHCOC5H4N, R1 = H), I (R = NHCOC5H4N, R1 = Me), I (R = N:CHPh, R1 = CH2CO2H), I (R = N:CHPh, R1 = H) and I (R = N:CHPh, R1 = Me).

IT 10165-03-4

RI: BIOL (Biological study)
 (antioxidant activity of)

RN 10165-03-4 CAPLUS

CN 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1966:423765 CAPLUS

DN 65:23765

OREF 65:4439b,4440a-b

TI Relation of chemical structure to activity of heterocyclic sulfates

AU Fenech, Giovanna

SO Atti della Società Peloritana di Scienze Fisiche, Matematiche e Naturali (1965), 11(1-2), 117-29

CODEN: ASPSAJ; ISSN: 0037-8860

DT Journal

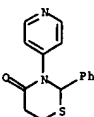
LA Italian

AB The antibacterial and pharmacol. effects of a series of thiazolidinones and metathiazanones were studied. Twenty-six compds. with and without ortho, meta, and para substitution of Cl or NO2 on the phenyl ring and a 2-, 3-, or 4-pyridyl ring or an isonicotinoylamino moiety on the N of the thiazole and metathiazanone rings were tested. Oral doses of 25-300 mg./kg. of various compds. were given rats kept under observation for characteristic central nervous system (CNS) effects. Antibacterial effects were followed by the agar diffusion technique using 6.3-mm. filter paper disks saturated with suspensions containing 20 µg/ml. of the compds. studied. Of the metathiazanones, 2-phenyl-3-(3-pyridyl)-1,3-thiazin-4-one and 2-phenyl- and 2-(2-chlorophenyl)-3-(4-pyridyl)-1,3-thiazin-4-one had stimulating effects on the CNS at doses >50 mg./kg., characterized by tremors and tonic convulsions. A depressing action was noted at lower dose levels. Of the thiazolidinones studied 2-(3-nitrophenyl)-3-(3-pyridyl)-4-thiazolidinone had a weak CNS stimulating effect and 2-(2-chlorophenyl)- and 2-(3-nitrophenyl)-3-(isonicotinoylamino)-4-thiazolidinone had CNS depressing effects. Only 2-(2-nitrophenyl)-3-(2-pyridyl)-1,3-thiazin-4-one had a weak inhibiting effect on Staphylococcus aureus and Trichophyton mentagrophytes. The 6-membered heterocyclic ring, the unsubstituted phenyl ring, and the 4-pyridyl radical produced the greatest CNS effect.

IT 10165-03-4, 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- 10165-04-5, 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (pharmacology of)

RN 10165-03-4 CAPLUS

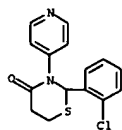
CN 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



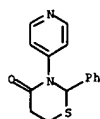
RN 10165-04-5 CAPLUS

CN 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)

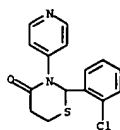
L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1962:66924 CAPLUS
 DN 56:66924
 OREF 56:12898e-g
 T1 Reactivity of the azomethine group. XI. Synthesis of 2-aryl-3-(3- and 4-pyridyl)-1,3-thiazan-4-ones
 AU Fenech, Giovanni; Basile, Maria
 CS Univ. Messina, Italy
 SO Gazzetta Chimica Italiana (1961), 91, 163-72
 CODEN: GCITA9; ISSN: 0016-5603
 DT Journal
 LA Unavailable
 AB Reactions of Schiff bases from 3- and 4-aminopyridine with HS(CH₂)₂CO₂H (1) were described. 1 and the Schiff base from 3-aminopyridine and BzH refluxed in dry C₆H₆ 70 hrs., gave 2-phenyl-3-(3-pyridyl)-1,3-thiazan-4-one, m. 105-7°, together with some S(CH₂CH₂CO₂H)₂ and benzaldehyde thioacetal. The following 1,3-thiazan-4-ones were similarly obtained: 2-(2-chlorophenyl)-3-(3-pyridyl), m. 110-12°; 2-(3-nitrophenyl)-3-(3-pyridyl), m. 152-4°; 2-phenyl-3-(4-pyridyl), m. 190-1°; 2-(2-chlorophenyl)-3-(4-pyridyl), m. 201-3°. With p-O₂NC₆H₄CHO, no cyclic compound was obtained. With m-O₂NC₆H₄CHO and 1 in the presence of 4-aminopyridine a mixture of products was obtained, including a 1:1 compound of the acid and aldehyde.
 IT 10165-03-4, 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- 10165-04-5, 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (preparation of)
 RN 10165-03-4 CAPLUS
 CN 10165-03-4 CAPLUS
 CN 10165-04-5 CAPLUS
 CN 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



RN 10165-04-5 CAPLUS
 CN 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

=> fil caol
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

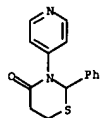
This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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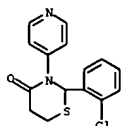
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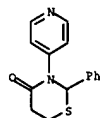
LS ANSWER 1 OF 2 CAOLD COPYRIGHT 2005 ACS on STN
 AN CA65:4439h CAOLD
 TI relation of chemical structure to activity of heterocyclic sulfates
 AU Fenech, Giovanna
 IT 10164-84-8 10164-85-9 10164-86-0 10164-87-1 10164-88-2 10164-89-3
 10164-90-6 10164-91-7 10164-92-8 10164-93-9 10164-94-0 10164-95-1
 10164-96-2 10164-97-3 10164-98-4 10164-99-5 10165-00-1 10165-01-2
 10165-02-3 10165-03-4 10165-04-5 10249-17-9
 10249-19-1 10249-20-4 10249-21-5 10254-52-1
 IT 10165-03-4 10165-04-5
 RN 10165-03-4 CAOLD
 CN 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



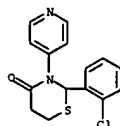
RN 10165-04-5 CAOLD
 CN 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



LS ANSWER 2 OF 2 CAOLD COPYRIGHT 2005 ACS on STN
 AN CA56:12898g CAOLD
 TI sulfinic acid amidines - (I) preparation of sulfinic acid amidines from
 amidine
 derivs. and their cyclization to 1,2,4,6-thiadiazines
 AU Goerdeler, Joachim; Wedekind, B.
 IT 10165-03-4 10165-04-5 53245-14-0 97339-63-4
 97379-78-7 97394-35-9 98028-89-8 98780-16-6 98780-17-7 99671-37-1
 99801-23-7 99801-24-8 100146-98-3 100149-31-3 100153-92-2 100174-69-4
 100260-05-7 100353-02-4 100457-20-3 100457-21-4 102960-78-1 106172-78-5
 IT 10165-03-4 10165-04-5
 RN 10165-03-4 CAOLD
 CN 4H-1,3-Thiazin-4-one, tetrahydro-2-phenyl-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



RN 10165-04-5 CAOLD
 CN 4H-1,3-Thiazin-4-one, 2-(o-chlorophenyl)tetrahydro-3-(4-pyridyl)- (7CI, 8CI) (CA INDEX NAME)



=> fil capl
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FILE COVERS 1907 - 14 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 13 Apr 2005 (20050413/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3 8 S L1 FULL

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L4 15 S L3

FILE 'CAOLD' ENTERED AT 12:09:13 ON 14 APR 2005

L5 2 S L3

FILE 'CAPLUS' ENTERED AT 12:09:35 ON 14 APR 2005

E SUN QUN/AU
L6 134 S E3
E KYLE DONALD/AU
L7 91 S E6-E7
L8 200 S L6 OR L7
L9 11 S L8 AND THIAZ?

=> d que 19 stat

L6 134 SEA FILE=CAPLUS ABB=ON PLU=ON "SUN QUN"/AU
L7 91 SEA FILE=CAPLUS ABB=ON PLU=ON ("KYLE DONALD J"/AU OR "KYLE DONALD JAMES"/AU)
L8 200 SEA FILE=CAPLUS ABB=ON PLU=ON L6 OR L7
L9 11 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND THIAZ?

=> d 1-11 bib abs

10/802,765

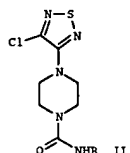
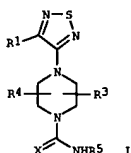
Page 14

L9 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:657939 CAPLUS
 TI Quinazolinones and benzothiazinones as novel sodium channel blockers
 AU Victory, Sam F.; Sun, Qun; Limberis, Jim; Kyle, Donald J.
 CS Discovery Research, Purdue Pharma, L.P., Cranbury, NJ, 08512, USA
 SO Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), MEDI-075 Publisher: American Chemical Society, Washington, D. C.
 CODEN: 69FTZ8
 DT Conference; Meeting Abstract
 LA English
 AB V102862 is a potent state-dependent sodium channel blocker (K_i = 370 nM, rBIIa) that has been shown to be efficacious in the Chung model of neuropathic pain. Toward the discovery of a second-generation compound having an improved pharmaceutical profile, we embarked on a systematic structure-activity investigation aimed at replacing the semicarbazone moiety of V102862 with various heterocycles as a bioisosteric replacement. Our labs. have reported on several series of high affinity sodium channel blockers as part of this effort, including a series of compds. containing a thiazolidinone ring system as a replacement. Some of the most potent compds. in the thiazolidinone series possessed a hydrophobic aryl ether moiety, similar to V102862, and also a piperidinylethylamine moiety. To further explore the bioisosteric replacement of the semicarbazone moiety of V102862, several addnl. series of compds. were synthesized including those having a quinazolin-4(3H)-one or a 2,3-dihydro-benzothiazin-4-one core ring system. Within each of these new series, the optimized piperidinylethylamine group of the thiazolidinone series was held constant while the hydrophobic aryl ether moiety was varied, generating potent sodium channel blockers in each series. Details of the synthesis and SAR of analogs will be presented.

L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:657937 CAPLUS
 TI Design and synthesis of novel potent aryl substituted benzimidazoles sodium channel blockers
 AU Zhou, Xisong; Sun, Qun; Kyle, Donald J.; Ilyin, Victor; Limberis, Jim
 CS Discovery Research, Purdue Pharma L.P., Cranbury, NJ, 08512, USA
 SO Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), MEDI-073 Publisher: American Chemical Society, Washington, D. C.
 CODEN: 69FTZ8
 DT Conference; Meeting Abstract
 LA English
 AB V102862 is a state-dependent sodium channel blocker that is efficacious in animal models of neuropathic pain. However, an in vivo metabolism study in rats suggested that the semicarbazone moiety of V102862 could account for formation of toxic semicarbazide metabolites. In order to improve potency and pharmaceutical profile, a focused chemical library with various substituted thiazolidinones was prepared. The lead compound 1 was identified with a K_i of 90 nM for state-dependent inhibition of Nav1.2 (rBIIa Na) channels co-expressed with beta 1 subunit in Xenopus oocytes. Further modification of the thiazolidinone compound 1 led to a series of novel potent aryl substituted benzimidazoles (e.g. 2) as sodium channel blockers.

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:20339 CAPLUS
 DN 140:77163
 TI Preparation of thiazolylpiperazines for treating or preventing pain
 IN Kyle, Donald J.; Sun, Qun
 PA USA
 SO U.S. Pat. Appl. Publ., 37 pp., which
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

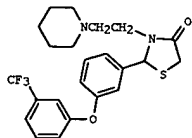
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004/006091	A1	2004/01/08	US 2003-374863	2003/02/27
PRAI US 2002-360172P	P	2002/03/01		
US 2002-411084P	P	2002/09/17		
OS MARPAT 140:77163				
GI				



AB The title compds. [I: R1 = Me, halo; R3 = alkyl, alkenyl, alkynyl, etc.; R4 = H; R5 = alkyl, cycloalkyl, aryl, etc.; n = 0-2; X = O, S], useful for treating or preventing pain in a patient, were prepared. E.g., a multi-step synthesis of three title compds. II [R = 4-tert-butylphenyl, 4-isopropylphenyl, and 4-trifluoromethylphenyl], was given. The compds. I were tested for binding to the human VR1 receptor. Typically, the compds. I have an IC₅₀ of < 25 μM for inhibition of capsaicin-induced activation. Assays for testing binding of the compds. I to mGluR5 and to mGluR1 are described (no data). Pharmaceutical composition comprising the compound I is claimed.

L9 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:634845 CAPLUS
 TI Parallel synthesis of a biased library of thiazolidinones as a novel sodium channel antagonists
 AU Tafesse, Layke; Sun, Qun; Limberis, James T.; Islam, Khondekar; Kyle, Donald J.
 CS Purdue Pharma LP, Cranbury, NJ, 08512, USA
 SO Abstracts of Papers, 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003 (2003), MEDI-237 Publisher: American Chemical Society, Washington, D. C.
 CODEN: 69EKY9
 DT Conference; Meeting Abstract
 LA English
 AB A biased chemical library containing 91 differentially substituted thiazolidinones was prepared in an effort to improve the pharmacol. and to overcome certain development liabilities of a known anticonvulsant agent V102862. The collection was prepared in a single step multi-component condensation reaction that produced good yields and very high crude purity (75%-85%). Seven compds., identified within the library were shown to be more potent than V102862, our parent reference compound, in an electrophysiol. assay measuring sodium channel antagonism. The most potent compound, 3-(2-piperidinylethyl)-2-(3-(3-trifluoromethylphenoxy)phenyl) thiazolidinone, has a K_i of 90 nM.

L9 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:625433 CAPLUS
 DN 140:93967
 TI Parallel synthesis of a biased library of thiazolidinones as
 novel sodium channel antagonists
 AU Sun, Qun; Tafesse, Layke; Limberis, James T.; Islam, Khondekar;
 Kyle, Donald J.
 CS Purdue Pharma LP, Cranbury, NJ, 08512, USA
 SO Combinatorial Chemistry and High Throughput Screening (2003), 6(5),
 481-488
 CODEN: CCHSFU; ISSN: 1386-2073
 PB Bentham Science Publishers Ltd.
 DT Journal
 LA English
 OS CASREACT 140:93967
 GI



AB A biased chemical library containing 91 differentially substituted thiazolidinones, e.g., 1, was prepared in an effort to improve the pharmacol. of a known anticonvulsant agent V102862. The collection was prepared in a single-step multicomponent condensation reaction that produced the thiazolidinones in good yields and very high crude purity. Seven compds., identified within the library, were shown to be more potent than V102862, our parent reference compound, in an electrophysiol. assay measuring sodium channel antagonism. The most potent compound (1) has a Ki of 90 nM.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:76766 CAPLUS
 DN 138:131144
 TI Aryl-substituted thiazolidinones and therapeutic use thereof
 IN Sun, Qun; Kyle, Donald J.
 PA Euro-Celtique, S.A., Luxembourg
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003008398	A1	20030130	WO 2002-US22367	20020716
W: AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TW, TH				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, EF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003109521	A1	20030612	US 2002-195530	20020716
EP 1417187	A1	20040512	EP 2002-763275	20020716
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004538285	T2	20041224	JP 2003-513957	20020716
US 2004176364	A1	20040909	US 2004-802765	20040318
FRAI US 2001-305099P	P	20010716		
US 2002-195530	A3	20020716		
WO 2002-US22367	W	20020716		
OS MARPAT 138:131144				
GI				



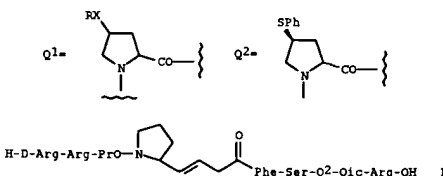
AB The invention discloses aryl-substituted thiazolidinones I (n = 1, 2; R1 = YN(R3)(R4) (Y = alkylene; R3, R4 = H, alkyl, aryl, or R3 and R4 together form alkylene chain having 4-5 C optionally interrupted by N or O), pyridylalkyl, optionally substituted piperidin-4-yl; R2 = optionally substituted phenoxyphenyl, optionally substituted phenylthiophenyl, optionally substituted benzylxyphenyl, etc.), or a pharmaceutically acceptable salt or solvate thereof. The invention also discloses the use of 1 for the treatment of neuronal damage following global and focal ischemia, for the treatment or prevention of neurodegenerative conditions, e.g. amyotrophic lateral sclerosis, and for the treatment, prevention or

L9 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 amelioration of both acute and chronic pain, of depression, as local anesthetics, as antiarrhythmics and for the treatment or prevention of diabetic neuropathy. The compds. of the invention are sodium channel blockers.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:563622 CAPLUS
 DN 125:301602
 TI Preparation of aminoalkanoate pseudopeptide derivatives as bradykinin antagonists
 IN Kyle, Donald J.; Mavunkel, Babu J.
 PA Scios Nova Inc., USA
 SO U.S., 19 pp., Cont.-in-part of U. S. Ser. No. 957,879.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5552383	A	19960903	US 1993-118550	19930909
US 5521158	A	19960528	US 1992-957879	19921008
US 5686665	A	19971111	US 1994-281904	19940728
CA 2171446	AA	19950316	CA 1994-2171446	19940909
CA 2171446	C	20041123		
WO 9507294	A1	19950316	WO 1994-US10128	19940909
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 716661	A1	19960619	EP 1994-929158	19940909
EP 716661	B1	20000405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 11500100	T2	19990106	JP 1994-508795	19940909
AT 191486	E	20000415	AT 1994-929158	19940909
ES 2148347	T3	20001016	ES 1994-929158	19940909
US 5817756	A	19981006	US 1995-401595	19950309
US 5610142	A	19970311	US 1995-416524	19950403
FRAI US 1992-957879	A2	19921008		
US 1993-118550	A2	19930909		
US 1993-118558	A	19930909		
US 1993-118981	A	19930909		
US 1993-119341	A	19930909		
US 1994-281904	A	19940728		
US 1994-281906	A	19940728		
US 1994-281907	A	19940728		
US 1994-281908	A	19940728		
US 1994-119341	A	19940909		
WO 1994-US10128	W	19940909		
US 1994-353426	B2	19941209		
OS MARPAT 125:301602				
GI				

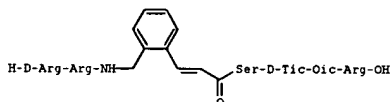


L9 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 AB A-B-C-D-E-F-G-H-I-J-Kn [A = H, D- and L- Arg, Gln, Asn, Lys, Ser, N-ac-Lys, NG-p-tosyl-Arg, NG-NO2-Arg, Lys-Lys, Ac-Arg, citrulline; B = bond, D- and L- Arg, Gln, Asn, Lys, Ser, N-ac-Lys, NG-p-tosyl-Arg, NG-NO2-Arg, Ac-Arg, citrulline; C = bond, Pro, 4Hyp, Oic, dehydroPro, Tic, Aoc, L-azetidine-2-carboxylate, Eac, Gly, Thz, Aib; D = 2-pyrrolidinyl, Pro, 4Hyp, Oic, dehydroPro, Tic, Aoc, L-azetidine-2-carboxylate, Eac, Gly, Thz, Aib; E = X(CH2)mZ1(CH2)nZ2(CH2)oCH2CO; X = bond, NH, Z1, Z2 = bond, C3-8 carbocycle residue, (cyclic) alkenylene; Y = H, CH2OH, alkyl, PhCH2, thiophenylmethyl, furylmethyl; m, n, o = 0-12; m+n+o ≤ 12; F = bond, aromatic amino acid; G = bond, Ser, Thr, Gly, Val, Ala, Cys, Tyr; H =

D-aromatic amino acid, D-Hype; I = Oic, Aoc, Thz, Tic, L-indoline-2-carboxylic acid, Aib, Leu, Ile, Val, Thi, octahydro-1H-indole-1-carboxylate, pipecolinic acid, Pro, 4Hyp, azetidine-2-carboxylate, Phe, homophenyl, Hype; J = Arg, Orn, Asn, Gln, Lys; Hype = Q1; R = (substituted) alkyl, cycloalkyl, aryl, aralkyl, etc.; X = O, S, SO, SO2; Cn = OH, amide, alkoxy, D- or L- amino acid residue; Aib = 2-aminoisobutyrate; Aoc = (S,S,S)-2-azabicyclo[3.3.0]octane-3-carboxylate; Eac = ε-aminocaproate; dehydroPro = 3,4-dehydropyrrolidine; 4Hyp = 4-hydroxyproline; Thi = β-2-thienylalanine; Thz = thiazolidine-4-carboxylate; Tic = tetrahydroisoquinoline-3-carboxylate; Oic = (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate, were prepared Thus, title compound (I) antagonized bradykinin with Ki = 15 μM.

L9 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1996:494750 CAPLUS
 DN 125:196389
 TI Bradykinin antagonist pseudopeptide derivatives of aminoalkenoic acids
 IN Kyle, Donald J.
 PA Scios Nova Inc., USA
 SO U.S., 26 pp., Cont.-in-part of U.S. 5,444,046.
 CODEN: USXGAM
 DT Patent
 LA English
 PAN.CNT 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5541286	A	19960730	US 1994-281907	19940728
US 5521158	A	19960528	US 1992-957879	19921008
US 5444048	A	19950822	US 1993-118981	19930909
CA 2171446	AA	19950316	CA 1994-2171446	19940909
CA 2171446	C	20041123		
WO 9507294	A1	19950316	WO 1994-US10128	19940909
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 716661	A1	19960619	EP 1994-929158	19940909
EP 716661	B1	20000405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 11500100	T2	19950106	JP 1994-508795	19940909
AT 191486	E	20000415	AT 1994-929158	19940909
ES 2148347	T3	20001016	ES 1994-929158	19940909
US 5817756	A	19981006	US 1995-401595	19950309
US 5610142	A	19970311	US 1995-416524	19950403
US 1992-957879	A2	19921008		
US 1993-118981	A2	19930909		
US 1993-118550	A	19930909		
US 1993-118558	A	19930909		
US 1993-119341	A	19930909		
US 1994-281904	A	19940728		
US 1994-281906	A	19940728		
US 1994-281907	A	19940728		
US 1994-281908	A	19940728		
US 1994-119341	A	19940909		
WO 1994-US10128	W	19940909		
US 1994-353426	B2	19941209		
OS MARPAT 125:196389				
GI				

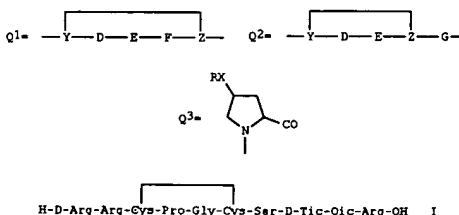


AB Pseudopeptide compds. A-B-C-D-E-F-G-Hn wherein: A is H or is selected from L- and D-isomers of, e.g., Arg, Gln, Asn, Lys; B is a bond or is selected

L9 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 from L- and D-isomers of Arg, Gln, Asn, Lys; C is a C2 to C18 olefinic aminoalkenyl NH(CH2)mZ1(CH2)nZ2(CH2)oCO wherein Z1 and Z2 are independently selected from the group consisting of a bond, C3-8 carbocycle, C2-18 monoolefin or C4-18 polyolefin contg. 1-5 double bonds which may optionally be incorporated into a cyclic system; m, n, and o are independently 0-12, with the proviso that their total does not exceed 16; D is a bond or is selected from Ser, Thr, Gly, Val, Ala, Cys, and Tyr; E is selected from the group consisting of a D-arom. amino acid and a D-Hype (hydroxyproline ether/thioether); F is selected from, e.g., Oic, Aoc, Thz, Tic [Oic is (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylic acid; Aoc is (S,S,S)-2-azabicyclo[3.3.0]octane-3-carboxylic acid; Thz is thiazolidine-4-carboxylic acid; Tic is tetrahydroisoquinoline-3-carboxylic acid]; G is selected from Arg, Orn, Asn, Gln, and Lys; Cn is OH or a C-terminal extension selected from, e.g., amide, alkoxy, based on a modified bradykinin sequence are potent bradykinin receptor antagonists. Amino acids at positions 2 through 5 are replaced by olefinic aminoalkenyl groups to reduce the peptide nature of the compds. The analogs produced are useful in treating conditions and diseases of a mammal and human in which an excess of bradykinin or related kinins are produced or injected such as by insect bites. Thus, e.g., pseudopeptide I was prepd. by solid-phase methodol., incorporating aminoalkenyl spacer N-Boc-3-[(2-(aminomethyl)phenyl)-2-propenoic acid (also prepd.)]; I exhibited binding to human bradykinin B2 receptor with Kd = 27 nM, and bradykinin antagonist activity with pA2 = 120 ± 8.

L9 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 1995:502939 CAPLUS
 DN 122:266015
 TI Preparation of cyclic peptides as bradykinin antagonists.
 IN Kyle, Donald James; Chakravarty, Sarvajit
 PA Scios Nova Inc., USA
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 PAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9419372	A1	19940901	WO 1994-US1393	19940208
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5543496	A	19960806	US 1994-279763	19940725
PRAI US 1993-18604	A	19930217		
OS MARPAT 122:266015				
GI				

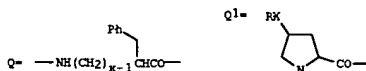


AB H-A1-A2-A3-A4-A5-A6-R1 [A1, A2 = D- or L-Arg, -Gln, -Asn, -Lys(Ac), -Lys, Lys-Lys, Ser, etc.; A3 = Q1, Q2; Y, Z = amino acid residues forming covalent bonds through their side chains; D, E = Pro, 4Hyp, Tic, Ala, Gly, Oic, Thz, Aib, dehydroprolyl, etc.; F = Phe, Thi, Trp, Tyr, Leu, Ile, Tic, Oic, hPhe, Nal, Val, phenylglycyl, etc.; G = bond, Ser, Thr, Gly, Val, Ala, Cys, Tyr; A4 = D-Phe, D-Tic, D-Pro, Q3; R = H, (substituted) alkyl, aryl, aralkyl, alkenyl, cycloalkyl, etc.; X = O, S, SO, SO2; A5 = Oic, Aoc, Tic, Pro, Aib, Leu, Ile, Val, Thi, Phe, hPhe, Q3, etc.; A6 = Arg, Orn, Asn, Gln, Lys; R1 = OH, amide, alkoxy, D- or L-amino acid or peptide residue; 4Hyp = 4-hydroxyprolyl; hPhe = homophenylalanyl, Thi = β-2-thienylalanyl, Tic = tetrahydroisoquinoline-3-carboxylic acid residue; Oic = (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylic acid residue; Thz = thiazolidine-4-carboxylic acid residue; Aib = 2-aminoisobutyric acid residue], were prepared Thus, title compound (I; prepared using FMOC chemical) antagonized bradykinin in guinea pig intestinal strips with pA2 = 6.6.

L9 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:339374 CAPLUS
 DN 123:9926
 TI Preparation of novel pseudopeptide bradykinin receptor antagonists
 IN Kyle, Donald James; Mavunkel, Babu Joseph
 PA Scios Nova Inc., USA
 SO PCT Int. Appl., 66 pp.
 CODEN: P1XXD2
 DT Patent
 LA English
 FAN. CNT 7

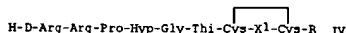
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9408607	A1	19940428	WO 1993-US9130	19930927
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5521158	A	19960528	US 1992-957879	19921008
US 5610142	A	19970311	US 1995-416524	19950403
PRAI US 1992-957879	A	19921008		
US 1993-118595	B1	19930909		
OS MARPAT 123:9926				
GI				

L9 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 related kinase is produced or injected as by insect bites, particularly for treating local pain and inflammation from burns, wounds, cuts, rashes, other trauma and pathol. conditions (no data). Thus, D-Arg-Arg-Pro-4Hyp-Gly-Thi-Ser-D-Phe-Oic-Arg-OH was prepd. by the solid phase method using a peptide synthesizer (model 9,600, Milligen Bioscience) Boc-Arg(Tos)-FAM resin and N-Boc-protected amino acids including Boc-Oic-OH, Boc-Thi-OH, and Boc-4Hyp(Bzl)-OH.



AB The substitution of at least one of the amino acids in positions 2 to 5 of the bradykinin peptide with a fatty acid amide converts bradykinin agonists into bradykinin antagonists. The invention further includes the intermediate compds. and addnl. modifications at other positions within the modified bradykinin antagonists which increase enzyme resistance, antagonist potency and/or specificity of the new bradykinin antagonists. This bradykinin-type peptides are represented by the formula
 R1-A-B-C-D-E-F-G-H-I-J-Cn (R1 = hydrogen; A, B = D- or L-Arg, -Gln, -Asn, -Lys, or -Lys(Ac), Arg(Tos), Arg(NO2), Lys-Lys, Ac-D-Arg, L-citrulline; C, D = direct bond, Pro, dehydro-Pro, 4-hydroxy-Pro (4Hyp), tetrahydroisoquinoline-3-carboxylic acid (Tic), (S,S,S)-2-azabicyclo[3.3.0]octane-3-carboxylic acid (Aoc), L-azetidine-2-carboxylic acid, ε-aminocaproic acid (Eac), Gly, thiazolidine-4-carboxylic acid (Thz), (2S,3aS,7aS)-octahydro-1H-indole-2-carboxylic acid (Oic), 2-aminoisobutyric acid (Aib), NH(CH₂)_xCO, Q (wherein x = 2-18); E = direct bond, Gly, Ala, Thr, Ser, NH(CH₂)_xCO, Q (wherein x = 2-18); F = direct bond, Phe, β-2-thienylalanine (Thi), Leu, Ile, Tic, Oic, homo-Phe, phenyl-Gly, β-cyclohexylalanine, Val, β-naphthyl-Ala (Nal), Val, NH(CH₂)_xCO, Q (wherein x = 2-18); G = Ser, Thr, 4Hyp, Gly, Val, Ala; H = D-Tic, D-Phe, trans-D-Q1 (wherein R = alkyl, alkenyl, aryl, aralkyl etc.; X = S, O); I = Phe, Tic, homo-Pro, cis- or trans-L-Q1, etc.; J = Arg, Lys, Orn, Asn, Gln, Lys(Ac), Orn(Ac); Cn = OH, amide, alkoxyl, D- or L-amino acid residue, peptide residue containing D- or L-amino acids]. The analogs produced are useful for treating human or mammalian conditions and diseases in which an excess of bradykinin or

L9 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:144010 CAPLUS
 DN 114:144010
 TI Design and conformational analysis of several highly potent bradykinin receptor antagonists
 AU Kyle, Donald J.; Martin, Jennifer A.; Farmer, Stephen G.; Burch, Ronald M.
 SO Nova Pharma. Corp., Baltimore, MD, 21224, USA
 SO Journal of Medicinal Chemistry (1991), 34(3), 1230-3
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI



AB Drawing on the reported spectroscopic data for bradykinin in solution and, in particular, the possible significance of β-turn structures at the C-terminus of bradykinin receptor-active compds., five peptides H-D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-X-Arg-OH [Thi = L-4-thiazolidinecarboxylic acid, Tic = 1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid; X = L-Tic (I), D-Tic (II), (1R,4S,5R)-2-azabicyclo[3.3.3]octane-4-carboxylic acid (III)], and IV (X1 = D-Tic-Phe-Arg, R = OH; X1 = D-Phe-Phe, R = Arg-OH) were prepared to challenge the hypothesis and probe the geometric and electronic requirements of the bradykinin receptor. Peptides I, II, and III were expected to stabilize the β-turn via conformationally constrained dihedral angles ψ, φ_{psi}, and χ for the amino acids at positions i and i+1 of the β-turn. Subsequent conformational anal. using empirical energy calcs. suggested that only peptides I and III should adopt the desired turn, a result verified by the inactivity of peptide II in the binding assay. Both peptides I and III were highly potent bradykinin receptor antagonists. The β-turn was anticipated to exist in peptides IV due to the disulfide bond cyclization bridging the amino acids at the C-terminus. Energy calcs. performed on these peptides suggested a diminished likelihood of a C-terminal type II' β-turn due to the presence of cis amide bonds and like peptide II, were found to have no activity in the bradykinin receptor binding assay. These peptides support the hypothesis that peptide bradykinin receptor antagonists must adopt a β-turn geometry at their C-terminus in order to have a high affinity for the receptor as suggested by previous NMR expts. in nonpolar solvent systems.